EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"digital content".clm. and drm.clm. and "downloading".clm. and license.clm. and wrapper.clm. and policies.clm. and java.clm. and "mobile.clm" and device.clm. and users.clm.	USPAT	OR	OFF	2006/02/24 18:35
L2	2	"digital content" and drm and "downloading" and license and wrapper and policies and java and mobile and device and user$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:36
L3	16	"digital content" and "downloading" and license and wrapper and policies and java and mobile and device and user$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:42
L4	1	726/31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:37
L5	9203	726/26 or 726/30 or 713/200 or 713/167 or 705/59 or 380/202 or 380/242 or 399/366 or 455/26.1 or 700/225 or 705/18 or 711/164 or 713/187 or 714/763 or 726/1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:38
L6	3	5 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:39
L7	0	kia.inv. and sheilla	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:39
L8	2	lal.inv. and vishal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 18:43

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1 DRM experience: Digital rights management in a 3G mobile phone and beyond ◼
Thomas S. Messerges, Ezzat A. Dabbish
October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**
Publisher: ACM Press

Full text available: 📄 pdf(306.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for protecting digital content in the embedded environment of a mobile phone is proposed and the elements in this system are defined. The means to enforce security in this system are described and a novel "Family Domain" approach to content management ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

2 Fast detection of communication patterns in distributed executions ◼
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Systems: Authorization for digital rights management in the geospatial domain ◼
Andreas Matheus
November 2005 **Proceedings of the 5th ACM workshop on Digital rights management**

DRM '05

Publisher: ACM Press

Full text available: pdf(829.98 KB)   Additional Information: full citation, abstract, references, index terms

Since information is available in digital format, the protection of intellectual property and copyright fraud has become an important issue. This is, because the digital content can be copied without quality loss and with a reasonable effort of time, equipment and money. After copying, it can be distributed using the Internet, again with little effort of time and money. In such an environment, the loss of revenue for the music and film industry -- not only due to sites like Napster -- is becomin ...

Keywords: DRM, access control, geoXACML, geospatial

4   Service infastructure and network management: MobiDesk: mobile virtual desktop computing

Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(580.39 KB)   Additional Information: full citation, abstract, references, index terms

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. MobiDesk transparently virtualizes a user's computing session by abstracting underlying system resources in three key areas: display, operating system, and network. It provides a thin virtualization layer that decouples a user's computing ses ...

Keywords: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

5   Performance Considerations for an Embedded Implementation of OMA DRM 2

Daniel Thull, Roberto Sannino

March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 3**

Publisher: IEEE Computer Society

Full text available: pdf(139.35 KB)   Additional Information: full citation, abstract

As digital content services gain importance in the mobile world, Digital Rights Management (DRM) applications will become a key component of mobile terminals. This paper examines the effect dedicated hardware macros for specific cryptographic functions have on the performance of a mobile terminal that supports version 2 of the open standard for Digital Rights Management defined by the Open Mobile Alliance (OMA). Following a general description of the standard, the paper contains a detailed analy ...

Keywords: DRM, Security, Mobile Terminal, Cryptography

6   Role-based access control on the Web using Java

Luigi Giuri

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(729.08 KB)   Additional Information: full citation, references, citings, index terms

7 Service infastructure and network management: Using code collection to support large applications on mobile devices
Lucian Popa, Irina Athanasiu, Costin Raiciu, Raju Pandey, Radu Teodorescu
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**
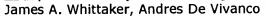**Publisher:** ACM Press
Full text available: pdf(252.95 KB)   Additional Information: full citation, abstract, references, index terms

> The progress of mobile device technology unfolds a new spectrum of applications that challenges conventional infrastructure models. Most of these devices are perceived by their users as "appliances" rather than computers and accordingly the application management should be done transparently by the underlying system unlike classic applications managed explicitly by the user. Memory management on such devices should consider new types of mobile applications involving code mobility such as mobile ...

> **Keywords:** caching, code collection, garbage collection

8 Computer security: Neutralizing windows-based malicious mobile code
James A. Whittaker, Andres De Vivanco
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(840.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

> *Mobile code*---executable programs that get copied from computer-to-computer via e-mail, web browsers, etc.---is a popular way to stage malicious attacks against users. The Windows operating system is often the target of such attacks, in part because of its ubiquity and in part because of the vast functionality it provides. Some of this functionality, like executable e-mail attachments and scripting, provides opportunity for mobile code to cause significant damage to a host system. One obv ...

> **Keywords:** API hooking, code signing, interrupt table, mobile code, native code, sandbox, virus, windows, worm, wrapper

9 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**
Publisher: ACM Press
Full text available: pdf(6.06 MB)   Additional Information: full citation, abstract, references, index terms

> Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

> **Keywords:** channel capture, emulation, wireless

10
Technical papers: mobile and distributed computing: A programming model and

system support for disconnected-aware applications on resource-constrained devices
Yaron Weinsberg, Israel Ben-Shaul
May 2002 **Proceedings of the 24th International Conference on Software Engineering**
Publisher: ACM Press
Full text available: pdf(1.28 MB)　　Additional Information: full citation, abstract, references, index terms

The emergence of networked lightweight portable computing devices can potentially enable accessibility to a vast array of remote applications and data. In order to cope with shortage of local resources such as memory, CPU and bandwidth, such applications are typically designed as a thin-client thick-server applications. However, another highly desirable yet conflicting requirement is to support disconnected operation, due to the low quality and high cost of on-line connectivity. We present a nov ...

11 Context-aware middleware for mobile multimedia applications
Oleg Davidyuk, Jukka Riekki, Ville-Mikko Rautio, Junzhao Sun
October 2004 **Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia MUM '04**
Publisher: ACM Press
Full text available: pdf(100.37 KB)　Additional Information: full citation, abstract, references

We present a context-aware middleware for mobile multimedia applications. The middleware offers functionality for service discovery, asynchronous messaging, publish/subscribe event management, storing and management of context information, building the user interface, and handling the local and network resources. It supports a wide range of context information including location, time, and user's preferences. Further, it allows controlling the connectivity of the device; the middleware is capabl ...

Keywords: context-aware and mobile computing, multimedia content adaptation

12 Randomized instruction set emulation
Elena Gabriela Barrantes, David H. Ackley, Stephanie Forrest, Darko Stefanović
February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 1
Publisher: ACM Press
Full text available: pdf(374.44 KB)　Additional Information: full citation, abstract, references, index terms

Injecting binary code into a running program is a common form of attack. Most defenses employ a "guard the doors" approach, blocking known mechanisms of code injection. *Randomized instruction set emulation* (RISE) is a complementary method of defense, one that performs a hidden randomization of an application's machine code. If foreign binary code is injected into a program running under RISE, it will not be executable because it will not know the proper randomization. The pape ...

Keywords: Automated diversity, randomized instruction sets, software diversity

13 iMobile EE: an enterprise mobile service platform
Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(2.90 MB)　　Additional Information: full citation, abstract, references, index terms

iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and

services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

14 Programming languages for mobile code

Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR),** Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(393.65 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Sun's announcement of the programming language Java more that anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

15 Constraints: An approach to engineer and enforce context constraints in an RBAC environment

Gustaf Neumann, Mark Strembeck

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(377.68 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission which is constrained by one o ...

16 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes,** Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(6.19 MB)   Additional Information: full citation, index terms

17 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB)   Additional Information: full citation, references, citings, index terms
html(2.78 KB)

18 MARE: resource discovery and configuration in ad hoc networks
Matt Storey, Gordon Blair, Adrian Friday
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(246.73 KB)   Additional Information: full citation, abstract, references, index terms

The emergence of personal portable devices, such as PDA's and Mobile phones, with considerable processing and communication capabilities, has led to a desire to use various combinations of these devices together to achieve new and as yet unrealised operations. Not only are mobile devices expected to offer conventional facilities like email and web browsing but also more demanding multimedia applications. Attaining these operations within a fixed network environment with high-power workstations i ...

Keywords: ad hoc, mobile agents, resource discovery, tuple space

19 Visualizing geospatial data
Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(13.99 MB)   Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

20 Software engineering for security: a roadmap
Premkumar T. Devanbu, Stuart Stubblebine
May 2000 **Proceedings of the Conference on The Future of Software Engineering**
Publisher: ACM Press
Full text available: pdf(1.71 MB)   Additional Information: full citation, references, citings, index terms

Keywords: copy protection, security, software engineering, water-marking

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